



SAFETY DATA SHEET

DICHLOROMETHANE

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Compilation date: 09/02/2012

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: DICHLOROMETHANE

CAS number: 75-09-2

EINECS number: 200-838-9

Index number: 602-004-00-3

Product code: GPS9007

Synonyms: METHYLENE CHLORIDE

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

Unit 6A

Arrow Trading Estate

Audenshaw

Manchester

M34 5LR

United Kingdom

Tel: 0161 320 0022

Fax: 01704 337 167

Email: enquiries@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 0161 320 0022

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Carc. 2: H351

Classification under CHIP: Xn: R40

Most important adverse effects: Suspected of causing cancer.

2.2. Label elements

Label elements under CLP:

Hazard statements: H351: Suspected of causing cancer.

Signal words: Warning

Hazard pictograms: GHS08: Health hazard



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Precautionary statements: P281: Use personal protective equipment as required.

2.3. Other hazards

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: DICHLOROMETHANE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: May be harmful if absorbed through the skin. There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Harmful if swallowed.

Inhalation: May be harmful if inhaled. There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Drowsiness or mental confusion may occur. Headaches or general malaise may result. There may be loss of consciousness. The casualty may appear intoxicated. Convulsions may occur. Breathing may stop. There may be vomiting and diarrhoea. Acts as an asphyxiant. There may be drowsiness, slurred speech, muscular weakness, muscle twitching, tremor, blurred vision, dilated pupils and shock.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid breathing vapours, mist or gas

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Store under inert gas. Sensitive to heat.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	350 mg/m ³	1060 mg/m ³	-	-

8.2. Exposure controls

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN14387) respirator cartridges as a backup to engineering controls.

Hand protection: Protective gloves.

Eye protection: Face-shield. Safety glasses.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

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Solubility in water: Slightly soluble

Boiling point/range°C: 39.8-40

Melting point/range°C: -97

Flammability limits %: lower: 12

upper: 19

Part.coeff. n-octanol/water: 1.25

Autoflammability°C: 556.1C 662C

Vapour pressure: 470.8hPa at20C

Relative density: 1.325g/ml at 25C

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases. Strong oxidising agents. Bases. Amines. Magnesium. Alkali metals. Aluminium. Vinyl compounds

10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	1600	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Carcinogenicity	--	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through the skin There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Harmful if swallowed.

Inhalation: May be harmful if inhaled There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Drowsiness or mental confusion may occur. Headaches or general malaise may result.

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There may be loss of consciousness. The casualty may appear intoxicated.
Convulsions may occur. Breathing may stop. There may be vomiting and diarrhoea. Acts as an asphyxiant. There may be drowsiness, slurred speech, muscular weakness, muscle twitching, tremor, blurred vision, dilated pupils and shock.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	1682.00	mg/l

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

Section 14: Transport information

14.1. UN number

UN number: UN1593

14.2. UN proper shipping name

Shipping name: DICHLOROMETHANE

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

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14.6. Special precautions for user

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Phrases used in s.2 and 3: H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
R40: Limited evidence of a carcinogenic effect.